

# THE UNITED STATES OF AMERICA

# To All TO WHOM THESE PRESENTS SHALL COME: Seminis Hegetable Seeds, Inc.

ALCCAS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OR BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### **TOMATO**

'FDR 14-2056'

In Testimonn Marrest, I have hereunto set my hand and caused the seal of the Plant Barista Protection Office to be affixed at the City of Washington, D.C. this twenty-third day of November, in the year two thousand and seven.

Attast:

Berze

Commissioner Plant Vuriety Protection Office Agricultural Marketing Service ff + fr-

					1 On 17 Approved - On 14 Tel. 000 1-0000	
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE				The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.		
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)				Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).		
1. NAME OF OWNER			-   ;	TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VARIETY NAME	
Seminis Vegetable Seeds, Inc.					FDR 14-2056	
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Co	de, and Country)	-   6	i. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY	
2700 Camino del Sol			İ	(805) 647-1572	PVPO NUMBER	
Oxnard, CA 93030-7967			-	. FAX (include area code)	200500320	
			i	(805) 918-2545	FILING DATE	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF 8. IF INCORPORATED, GIVE		9	. DATE OF INCORPORATION	_		
ORGANIZATION (corporation, partnership, assoc	ciation, etc.)	STATE OF INCORPORATION	ON		AUGUST 11,2005	
Corporation		CA		June 4, 1962	7,000	
10. NAME AND ADDRESS OF OWNER REPRESE	A STATE OF THE STA				F FILING AND EXAMINATION FEES:  S 3 652.00	
Ms. Carol Miller	Seminis \	ruins (marcel.bruins@se /egetable Seeds, Inc.	minis.	com)		
Seminis Vegetable Seeds, Inc.	Physical a	address: Wageningse Afv	weg 31		R DATE 8/1/2005	
37437 State Highway 16	NL-6702	PD Wageningen, The Ne	therlar	ıds	C CERTIFICATION FEE:	
Woodland CA 95695	(Postal: 1	<sup>2</sup> .O. Box 97, NL-6700 Al 17 468 428; FAX: 31 317	B Wag	eningen The Netherlands)	1 760 7	
	111.5151	7 400 420, FAA. 31 317	400 4.	<b>,</b> 1	D DATE 9/14/2007	
11. TELEPHONE (Include area code)	12. FAX (Includ			13. E-MAIL		
530-669-6274	530-66	9-6112		Carol.l.Miller@S	Seminis.com	
14. CROP KIND (Common Name)	16. FAMILY NA	ME (Botanical)		18. DOES THE VARIETY CONTA	AIN ANY TRANSGENES? (OPTIONAL)	
Tomato	Solanaceae			YES INO		
15. GENUS AND SPECIES NAME OF CROP	· <u> </u>	IETY A FIRST GENERATION HY	BRID?	IF SO, PLEASE GIVE THE A APPROVED PETITION TO	ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE DEREGULATE THE GENETICALLY MODIFIED PLANT FOR	
Lycopersicon esculentum	□YES ☑NO			COMMERICALIZATION.		
19. CHECK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse)	CHMENT SUBMIT	TTED		DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 63(a) of the Plant Variety Protection Act)		
a. 🗸 Exhibit A. Origin and Breeding History of	of the Variety			YES (If "yes", answer items 21 and 22 below) NO (If "no", go to item 23)		
b.  Exhibit B. Statement of Distinctness	•			21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?		
c. 📝 Exhibit C. Objective Description of Varie	ety			NUMBER OF CLASSES?		
d. Exhibit D. Additional Description of the				IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED		
e. 🗸 Exhibit E. Statement of the Basis of the		io		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO		
f. Voucher Sample (2,500 viable untreated	seeds or, for tube	er propagated varieties.		NUMBER OF GENERATIONS?  YES NO		
verification that tissue culture will be deprepository)				IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.		
g. Filing and Examination Fee (\$3,652), ma States" (Mail to the Plant Variety Protecti	ide payable to "Tri ion Office)	easurer of the United		☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED		
23. HAS THE VARIETY (INCLUDING ANY HARVEST	TED MATERIALL	OR A HYRRID PRODUCED			cessary, please use the space indicated on the reverse.)	
FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?	OF, TRANSFERR	ED, OR USED IN THE U. S. OR		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?		
YES NO.				YES NO		
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.						
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.						
Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.						
CICALATURE OF CHAPED				GNATURE OF OWNER		
Sharen Clay do						
NAME (Please print or type)			NAME	Please print or type)		
Sharen Chaffin			Sha	ren Chaffin		
CAPACITY OR TITLE	DATE		CAPAC	ITY OR TITLE	DATE	
IP Specialist 8-10-0% IR Spec		eciatist				

(See reverse for instructions and information collection burden statement)

200500320

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvpindex.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

#### ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- US: Hybrid 'Phoenix' sold Aug. 12, 2004; 'Quincy' sold January 2005
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

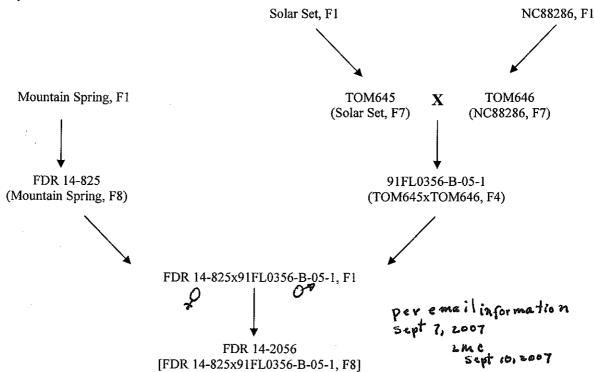
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

# **EXHIBIT A**

# Origin and Breeding History of FDR 14-2056, Tomato

FDR 14-2056 was developed in South Florida by pedigree selection from a cross between FDR 14-825, a firm, uniform shouldered breeding line, and 91FL0356-B-05-1, a hot set, and uniform shouldered breeding line. Both varieties are Seminis proprietary breeding lines.

The breeding history is as follows:



Spring 1995	Parental lines, FDR 14-825 and 91FL0356-B-05-1 were grown in the greenhouse at Naples, FL and the cross was
	made.
Summer 1995	The F1 Hybrid was field grown at Arcadia, FL and F2 seed was harvested.
Summer 1996	The F2 was field grown at Arcadia, FL and F3 individual plant selections were harvested
Summer 1997	F3 selections were field grown at Arcadia, FL and F4 individual plant selections were harvested
Winter 1999	F4 selections were grown at Immokalee, FL and F5 individual plant selections were harvested
Summer 1999	F5 selections were grown at Immokalee, FL and F6 individual plant selections were harvested
Summer 2000	F6 selections were grown at Parrish, FL and F7 individual plant selections were harvested
Spring 2001	F7 selections were grown at Felda, FL and F8 individual plant selections were harvested
Summer 2001	F8 selections were grown at Felda, FL to check uniformity. Observations of the plants and fruit confirmed that the
	line was uniform.
Fall 2004	Uniformity was reconfirmed in field plantings at Immokalee, FL

FDR 14-2056 was selected to develop a line that sets fruit well under hot humid conditions that are normal conditions in late summer in Florida. It was also selected to have a vigorous plant type to better with stand the severe weather of the summer growing season. In addition, it was selected for extra large, firm, uniformly colored fruit with good horticultural quality.

From observations made during the 2001 and 2004 growing seasons, FDR 14-2056 was found to be uniform and stable within commercially acceptable limits. As is true with other tomato inbred lines, a very small percentage of variants can occur within commercially acceptable limits for many characteristics during the course of repeated multiplication. No genetic variants are known to occur and, to date, this inbred line has been observed to be completely uniform and stable for at least two generations.

#### EXHIBIT B

# Statement of Distinctness for Tomato, FDR 14-2056

FDR 14-2056 is a determinate tomato variety that sets fruit well under the hot humid conditions of south Florida during late August and September. Fruit set is also excellent during less hot conditions. To our knowledge, the variety which most closely resembles the candidate variety is Florida 7171 (US PVP # 8900012).

The characteristic that most readily distinguishes the two varieties is shoulder color. FDR 14-2056 is uniform green in color, RHS 145C (refer to Photo # 1), whereas Florida 7171 has green shoulders non-uniform, RHS 144D (refer to Photo # 2). Also FDR 14-2056 has leaves type tomato compared to Florida 7171 that has leaves type potato.

Photo #1:

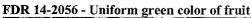
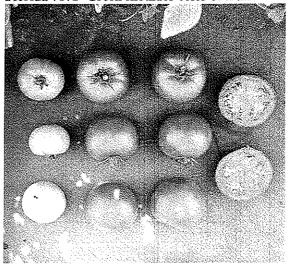




Photo # 2: Florida 7171- Green shoulder color of fruit



<u>Leaf morphology:</u> FDR 14-2056 has "Type 1" (Tomato) leaves (refer to Photo # 3), whereas Florida 7171 has "Type 2" (Potato) leaves (refer to Photo # 4).

Photo #3:

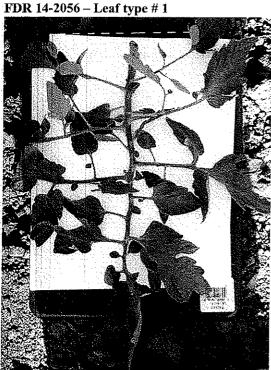
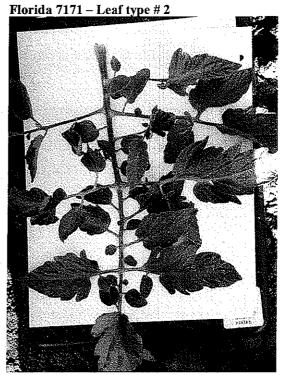


Photo # 4:



Fruit size: FDR 14-2056 has larger and heavier fruit (Averages: 118 mm in length, 82 mm in diameter, 264 g in weight refer to Photo # 5), whereas Florida 7171 has smaller and lighter fruit (Averages: 112 mm in length, 71 mm in diameter, 186 g in weight - refer to Photo # 6).

Photo # 5: FDR 14-2056 – Mature fruit

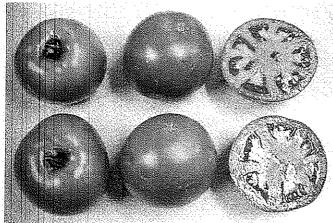
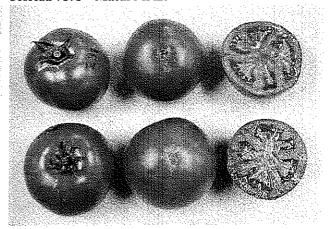


Photo # 6: Florida 7171 – Mature fruit



<u>Height of Mature Plant:</u> FDR 14-2056 has an average plant height of 87 cm, whereas Florida 7171 has average plant height of 79 cm (refer to Photo #7).

Photo #7:



REPRODUCE LOCALLY. Include form number and date on all reproductions

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of lidermation unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

**EXHIBIT C** 

**OBJECTIVE DESCRIPTION OF VARIETY** TOMATO (Lycopersicon esculentum )

NAME OF APPLICANT (S) TEMPORARY OR EXPERIMENTAL DESIGNATION VARIETY NAME eminic Vacatable Seeds Inc. FDR 14-2056 DDRESS (Street and No. or RD No., City, State, Zip Code, and Country) ROLLO DO COMEDIADO DA O PVPO NUMBER 2700 Camino del Sol 200500320 Oxnard, CA 93030-7967 Choose responses for the following characters which best fit your variety. Complete this form as fully as possible for best characterization of the variety. When a single quantitative value is requested (e.g., fruit weight), your answer should be the mean of an adequate-sized, unbiased sample of plants. Use leading zeros when necessary (e.g., 0 2 or 0 § 1, etc.). The applicant variety should be compared with at least one well-known standard check variety of the same type (see list of recommended check varieties below), and grown in the same trials. The characters on this form should be described from plants grown under normal conditions of culture for the variety. Indicated by check whether trial data are from green house \_\_\_ or field 🖊 planting. Trials direct-seeded \_\_\_ or transplanted; staked \_\_\_ or unstaked \_\_\_. Give locations and dates of seeding and transplanting here: The trial was conducted in the field of Home Ranch TU, at Woodland, CA. Seeding was on 03/04/05 in Greenhouse, transplanted in the field on 04/08/05. 04/05/05 inthe Greenhouse, transplanted in the field on 05/12/05. COMPARISONS SHOULD BE MADE TO ONE OR MORE CHECK VARIETIES IN THE FOLLOWING LIST. IF AT ALL POSSIBLE, ENTER THE NUMBER OF THE CHECK IN BOXES WHERE IDENTITY OF CHECK IS REQUESTED. 1 = Ace 55 VF 7 = Homestead 24 13 = Red Rock 19 = VF 134 2 = Campbell 37 8 = Marglobe 14 = Roma VF 20 = US 28 3 = Chico III 9 = Murietta 21 = VF 145 B 7879 22 = Other (Specify) <u>FDR 14-532</u> \* HP 168 15 = Rutgers 4 = Flora Dade 10 = New Yorker 16 = Sunray 5 = Florida MH-1 11 = Ohio MR-13 23 = Other (Specify) 17 = Tropic 6 = Heinz 1350 12 = Red Cherry Large 18 = UC 82 24 = Other (specify) 1. SEEDLING Anthocyanin in hypocotyl of 2 – 15 cm seedling: 1 = Absent 2 = Present Habit of 3 – 4 week old seedling: 1 = Normal 2 = Compact 2. MATURE PLANT (at maximum vegetative development) 087 cm Height 2 Growth: 1 = Indeterminate 2 = Determinate 2 Form: 1 = Lax, open 2 = Normal 3 = Compact 4 = Dwarf 5 = Brachytic Size of canopy (compared to others of similar type): 1 = Small 2 = Medium 3 = Large

2 Habit: 1 = Sprawling (decumbent) 2 = Semi-Erect 3 = Erect ('Dwarf Champion')

# 3. STEM 2 Branching: 1 = Sparse ('Brehm's Solid Red', 'Fireball') 2 = Intermediate ('Westover') 3 = Profuse ('UC 82') 1 Branching at cotyledonary or first leafy node: 1 = Present 2 = Absent 2 No. of nodes between first inflorescences: 1 = 1-4 2 = 4-7 3 = 7-10 4 = 10 or more 1.7 No. of nodes between early (1st - 2nd, 2nd - 3rd) inflorescences. 1.5 No. of nodes between later developing inflorescences. 2 Pubescence on younger stems: 1 = Smooth (no long hairs) 2 = Sparsely hairy (scattered long hairs) 3 = Moderately hairy 4 = Densely hairy or wooly 4. LEAF (mature leaf beneath the 3rd inflorescences) 1 Type: 1 = Tomato 2 = Potato ('Trip-L-Crop') $m{1}$ Morphology (choose illustration at the end of this form that is most similar) 3 Margins of major leaflets: 1 = Nearly entire 2 = Shallowly toothed or scalloped 3 = Deeply toothed or cut, sps. Toward base 2 Marginal rolling or wiltiness: 1 = Absent 2 = Slight 3 = Moderate 4 = Strong Onset of leaflet rolling: 1 = Early-Season 2 = Mid-Season 3 = Late Season Surface of major leaflets: 1 = Smooth 2 = Rugose (bumpy or veiny) 2 Pubescence: 1 = Smooth (no long hairs) 2 = Normal 3 = Hirsute 4 = Wooly 5. INFLORESCENCE (make observations on 3rd inflorescence) 3 Type: 1 = Simple 2 = Forked (2 major axes) 3 = Compound (much branched) 2 Number of flowers in inflorescence. Average Leafy or "running" inflorescences: 1 = Absent 2 = Occasional 3 = Frequent 6. FLOWER Calyx: 1 = Normal, lobes awl-shaped 2 = Macrocalyx, lobes large, leaflike 3 = Fleshy \_\_\_\_ Calyx-lobes: 1 = Shorter then corolla 2 = Approx. equalling corolla 3 = Distinctly longer than corolla \_\_\_\_ Corolla color: 1 = Yellow 2 = Old Gold 3 = White or Tan Style pubescence: 1 = Absent 2 = Sparse 3 = Dense Anthers: 1 = All fused into tube 2 = Separateing into 2 or more groups at anthesis $\mathbf{L}$ Fasciation (1<sup>st</sup> flower of 2<sup>nd</sup> or 3<sup>rd</sup> inflorescence): 1 = Absent 2 = Occasionally present 3 = Frequently present 7. FRUIT (3<sup>rd</sup> fruit of 2nd or 3<sup>rd</sup> cluster) For the first 5 characters below, match your variety with the most similar illustration on pages at the end of this form. 3 Typical fruit shape \_\_\_\_\_ Shape of transverse section 2 Shape of stem end 2 Shape of blossom end 2 Shape of pistil scar Abscission layer: 1 = Present (pedicellate) 2 = Absent (jointless) Point of detachment of fruit at harvest: 1 = At pedicel joint 2 = At calyx attachment 1 3 mm Length of dedicel (from joint to calyx attachment) 1 1 2 mm Length, check var. no. \_\_\_\_\_\_ mm Length of mature fruit (stem axis) 082 mm Diameter of fruit at widest point 071 mm Diameter, check var. no. 222 264 g Weight of mature fruit 186 g Weight, check var. no. 3 No. of locules: 1 = Two 2 = Three and four 3 = Five or more Fruit surface: 1 = Smooth 2 = Slight ly rough 3 = Moderately rough or ribbed

Fruit base color (mature-green stage):

1 = Light Green ('Lanai', 'VF 145-F5') 2 = Light Gray-Green 3 = Apple or Medium Green ('Heinz 1439 VF') 4 = Yellow Green 5 = Dark Green

1 Fruit Pattern (mature-green stage): 1 = Uniform Green 2 = Green-Shouldered 3 = Radial Stripes on Sdes of Fruit

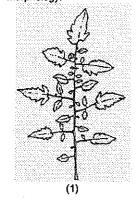
Shoulder-color-if-different from base: 1 = Dark-Green 2 = Gr			
	ey Green 3 = Yellow Green	The state of the s	1000
5 Fruit color, full-ripe: 1 = White 2 = Yellow 3 = Orange 4 =	Pink 5 = Red 6 = Brownish 7 = Greeni	sh 8 = Other (specify)	
3_ Flesh color, full-ripe: 1 = Yellow 2 = Pink 3 = Red/Crimson		Andrews Comments	eres
2 Flesh color: 1 = Uniform 2 = With lighter and darker areas in			
2 Locular gel color of table-ripe fruit: 1 = Green 2 = Yellow 3	= Red	And the state of t	est en
2 Ripening: 1 = Blossom-to-stem end 2 = Uniform			
2 Ripening: 1 = Inside out 2 = Uniformly 3 = Outside in			
2 Stem scar size: 1 = Small ("Roma") 2 = Medium ("Rutgers")	3 = Large	The state of the s	The second secon
2 Core: 1 = Coreless (absent or smaller than 6x6 mm) 2 = Pre	sent		the second second
Epidermis color: 1 = Colorless 2 = Yellow			
2 Epidermis: 1 = Normal 2 = Easy-peel			
2 Epidermis texture: 1 = Tender 2 = Average 3 = Tough		A second of the base of the control	
그 선물들은 그 그 그 그 그 그 그 그 사람이 가족하면 2000의 방향하여 하셨다고 그 아니라 되었다. 이 그 사람이 되었다.	ckness of pericarp. Check var. no. 2	2	
Anthocyanin in hypocotyl of 2 - 15 mc seedling: 1 = Absent-1	Cinn)	4 week old seedling: 4 = 1	lomal 2 = Compaet
8. RESISTANCE TO FRUIT DISORDER (Use code: 0 = Unknown 1			
Λ 2	_	ppering	
		ther (specify)	
2 Bursting 2 Cracking, radial	<u>2</u> Graywall		
9. DISEASE AND PEST REACTION (Lise code: 0 = Linknown 1 = s	Pueconfible 2 - Designation MOTE IS IN		
<ol> <li>DISEASE AND PEST REACTION (Use code: 0 = Unknown 1 = S upon disease resistance, trial data should be appended. These should known check varieties grown in the trial (identified by name).</li> </ol>	d specify the method of testing, the reaction	n of novelty is based wholen of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:	a specify the method of testing, the reaction	n of novelty is based whol on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0	a specify the method of testing, the reaction of testing of testing of testing of testing of testing of the reaction of testing of testi	n of novelty is based whol on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1	a specify the method of testing, the reaction	n of novelty is based wholen of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2	a specify the method of testing, the reaction of testing of testing of testing of testing of testing of the reaction of testing of testi	n of novelty is based whol on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric	a specify the method of testing, the reaction  Tobacco mosaic, Race2 <sup>2</sup> Tomato spotted wilt	n of novelty is based whol on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify)	Tomato yellows	n of novelty is based whol on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify)  Bacterial Diseases:	Tomato yellows	n of novelty is based whol on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify)  Bacterial Diseases: Bacterial canker (Corynebacterium miciganense)	Tobacco mosaic, Race2 <sup>2</sup> Tomato spotted wilt Tomato yellows Gold fleck Bacterial spot (Xanthomonas vesicato	on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify)  Bacterial Diseases: Bacterial canker (Corynebacterium miciganense) Bacterial soft rot (Erwinia corotovora)	Tobacco mosaic, Race22 Tomato spotted wilt Tomato yellows Gold fleck Bacterial spot (Xanthomonas vesicato	on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0  Curly top Tobacco mosaic, Race 1  Potato-Y virus Tobacco mosaic, Race 2  Blotchy ripening Cracking, concentric  Other virus (specify)  Bacterial Diseases:  Bacterial canker (Corynebacterium miciganense)  Bacterial soft rot (Erwinia corotovora)  Bacterial speck (Pseudomonas tomato)	Tobacco mosaic, Race2 <sup>2</sup> Tomato spotted wilt Tomato yellows Gold fleck Bacterial spot (Xanthomonas vesicato	on of the application variet	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify) Bacterial Diseases:  Bacterial canker (Corynebacterium miciganense) Bacterial soft rot (Erwinia corotovora) Bacterial speck (Pseudomonas tomato)  Fungal Diseases:	Tobacco mosaic, Race2 <sup>2</sup> Tomato spotted wilt Tomato yellows Gold fleck  Bacterial spot (Xanthomonas vesicato Bacterial wilt (Pseudomonas solanace Other bacterial disease (specify)	rium) arum)	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify)  Bacterial Diseases: Bacterial canker (Corynebacterium miciganense) Bacterial soft rot (Erwinia corotovora) Bacterial speck (Pseudomonas tomato)  Fungal Diseases: Anthracnose (Colletotrichum spp.)	Tobacco mosaic, Race22 Tomato spotted wilt Tomato yellows Gold fleck Bacterial spot (Xanthomonas vesicato	rium) arum)	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify) Bacterial Diseases:  Bacterial canker (Corynebacterium miciganense) Bacterial soft rot (Erwinia corotovora) Bacterial speck (Pseudomonas tomato)  Fungal Diseases:  Anthracnose (Colletotrichum spp.) Brown root rot or corky root (Pyrenochaeta lycopersici)	Tobacco mosaic, Race2 <sup>2</sup> Tomato spotted wilt Tomato yellows Gold fleck  Bacterial spot (Xanthomonas vesicato Bacterial wilt (Pseudomonas solanace Other bacterial disease (specify)	rium) arum)	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify) Bacterial Diseases:  Bacterial canker (Corynebacterium miciganense) Bacterial speck (Pseudomonas tomato)  Fungal Diseases:  Anthracnose (Colletotrichum spp.) Brown root rot or corky root (Pyrenochaeta lycopersici) Collar rot or stem canker (Alternaria solani)	Tobacco mosaic, Race22 Tomato spotted wilt Tomato yellows Gold fleck  Bacterial spot (Xanthomonas vesicato Bacterial wilt (Pseudomonas solanace Other bacterial disease (specify)  Leaf mold, Race 1 (Cladosporium fulvi	rium) arum)	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify) Bacterial Diseases:  Bacterial canker (Corynebacterium miciganense) Bacterial soft rot (Erwinia corotovora) Bacterial speck (Pseudomonas tomato)  Fungal Diseases:  Anthracnose (Colletotrichum spp.)  Brown root rot or corky root (Pyrenochaeta lycopersici) Collar rot or stem canker (Alternaria solani)  Early blight defoliation (Alternaria solani)	Tobacco mosaic, Race22 Tomato spotted wilt Tomato yellows Gold fleck  Bacterial spot (Xanthomonas vesicato Bacterial wilt (Pseudomonas solanace Other bacterial disease (specify)  Leaf mold, Race 1 (Cladosporium fulvi) Leaf mold, Race 2	rium) arum)	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify) Bacterial Diseases:  Bacterial canker (Corynebacterium miciganense) Bacterial speck (Pseudomonas tomato)  Fungal Diseases:  Anthracnose (Colletotrichum spp.) Brown root rot or corky root (Pyrenochaeta lycopersici) Collar rot or stem canker (Alternaria solani)	Tobacco mosaic, Race2 <sup>2</sup> Tomato spotted wilt Tomato yellows Gold fleck  Bacterial spot (Xanthomonas vesicato Bacterial wilt (Pseudomonas solanace Other bacterial disease (specify)  Leaf mold, Race 1 (Cladosporium fulvi Leaf mold, Race 2 Leaf mold, Race 3	rium) arum)	ly or in substantial part y, and reaction of well-
known check varieties grown in the trial (identified by name).  Viral Diseases:  Cucumber mosaic Tobacco mosaic, Race 0 Curly top Tobacco mosaic, Race 1 Potato-Y virus Tobacco mosaic, Race 2 Blotchy ripening Cracking, concentric Other virus (specify) Bacterial Diseases:  Bacterial canker (Corynebacterium miciganense) Bacterial soft rot (Erwinia corotovora) Bacterial speck (Pseudomonas tomato)  Fungal Diseases:  Anthracnose (Colletotrichum spp.)  Brown root rot or corky root (Pyrenochaeta lycopersici) Collar rot or stem canker (Alternaria solani)  Early blight defoliation (Alternaria solani)	Tobacco mosaic, Race22 Tomato spotted wilt Tomato yellows Gold fleck  Bacterial spot (Xanthomonas vesicato Bacterial wilt (Pseudomonas solanace Other bacterial disease (specify)  Leaf mold, Race 1 (Cladosporium fulvi Leaf mold, Race 2 Leaf mold, Race 3 Leaf mold, other races (specify)	rium) arum)	ly or in substantial part y, and reaction of well-

9. DISEASE AND PEST REACTION (continued)	Net Comment		e gewee	
Fungal-Diseases:			A STATE OF THE STA	
2 Gray leaf spot (Stemphylium spp.)	2 Vertic	illium wilt, Race 1 (V. albo	-atrum)	:
Late blight, Race 0 (Phytophthora infestans)	√ Vertic	illium wilt Race 2	10 mm 11 mm 11 mm 12 mm	
Late blight, Race 1	2 Other	fungal disease (specify)	Alternaria St	em Canker
Insects and Pests:	<del></del>	C.	Alternaria alter	em Canker nata f. 3p lycopersici
Colorado potato beetle (Leptinotarsa decemline		o homworm ( <i>Manduca qu</i>		
Southern root knot nematode (Meloidogyne inc	F	o fruitworm ( <i>Heliothis</i> zea		
Spider mites ( <i>Tetranychus</i> spp.)	The state of the s	ly (Trialeurodes vaporario		
Sugar beet army worm (Spodoptera exigual)		(specify)		dede com
Tobacco flea beetle (Epitrix hirtipennis)		. ,		
Pollutants:				
Ozone Sulfur dioxide	Other (	specify)	To the next server to the control of	
CHEMISTRY AND COMPOSITION OF FULL-RIPE Bull. 27-L. Please specify test methods or give a reknown check variety of similar type grown in the same specific process.	elerence to methods lise	d. Fill in table below with or numbers of check varie	values for the new varie elies.	ty and for at lease one well-
	Submitted Variety	Check Variety F1 71 71	Check Variety	Check Variety
На	4. 36	4- 35		
Titratable acidity, as % citric	0. 32 92	0.36992		
Total solids (dry matter, seeds and skin removed)	5.84%			
Soluble solids as <sup>o</sup> Brix	5.06	5.46		
11. PHENOLOGY Express length of developmental strused, indicate the base temperature used in their of for at least one check variety; identify checks by na	MANAGEV VEPONTE	that this value	includes sking ing degree days), in degree days), in degree days) and the degree days in degree	rees Celsius. If heat units are ethod. Give comparative data
	Application Variety	Check Variety	Check Variety	Check Variety
Seeding to 50% flow (1 open on 50% of plants)				
Seed to once over harvest (if applicable)				
Fruiting season: 1 = Long ('Marglobe) 2 = Media  Relative maturity in areas tested: 1 = Early 2 = (If relative maturity	Medium early 3 = Medium		Late 6 = Variable	
12. ADAPTATION If more than one category applies, li	st all in rank order.			
Culture: 1 = Field 2 = Greenhouse				
Principle use(s): 1 = Home garden	2 = Fresh market 3 = W	/hoje-nack canning 4 = (	Concentrated products	•
5 = Other (specify)		more pack carming 4 = 0	concentrates products	
Machine harvest: 1 = Not adapted 2 = Adapted  1 3 Regions to which adaptation has be				
1 = Northeast 2 = Mid Atlant 6 = South-central 7 = Intermour 10 = California: Coastal Areas 11 = California	tic 3 = Sou stain West 8 = Nort	hwaet a	Florida California: Sacramento	5 = Great Plains and Upper San Joaquin Valley

### ILLUSTRATIONS OF TOMATO LEAF AND FRUIT CHARACTERISTICS

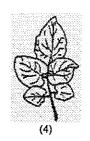
#### 4. LEAF

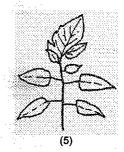
### Morphology:





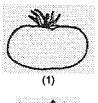


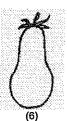




7. FRUIT

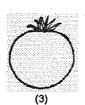
Typical fruit shape:

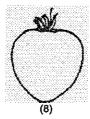


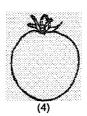


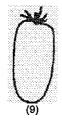


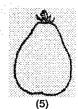














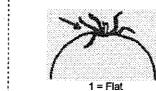
Shape of transverse section:



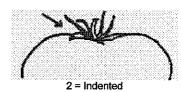








Shape of stem end:

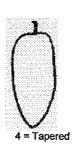


Shape of blossom end:

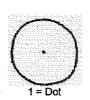




3 = Nippled



Shape of pistil scar:









4 = Irregular

Exhibit C (Tomato)

#### **REFERENCES**

- Anonymous, 1976. All About Tomatoes. Ortho Books, Chevron Chemical Co., San Francisco. In three volumes: Midwest/Northeast Edition, West Edition, and South Edition.
- Ware, G.W. & J.P. McCollum, 1968. Producing Vegetable Crops. The Interstate Printer & Publishers, Inc., Danville, Illinois. Chapter 30, pp. 451-473, "Tomatoes".
- Warnock, S.J. 1978. Using Tomato Heat Units. Leaflet No. 6, Campbell Institute for Agricultural Research, Camden, NJ. 10 p.
- Webb, R.E., T.H. Barksdale, & A.K. Stoner, 1973. "Tomatoes", pp. 344-361, in: Nelson, R.R. (Ed.), Breeding Plants for Disease Resistance. Pennsylvania State University Press, University Park.
- Young, P.A. & J.W. MacArthur, 1947. Horticultural characters of tomatoes. Bull. Texas Agric. Exper. Station No. 698.

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EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is issu	ed (7 U.S.C. 2426).	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME	
Seminis Vegetable Seeds, Inc.	OR EXPERIMENTAL NUMBER	FDR 14-2056	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)	
2700 Camino del Sol Oxnard, CA 93030-7967	(805) 647-1572	(805) 918-2545	
	7. PVPO NUMBER	20050032	
8. Does the applicant own all rights to the variety? Mark an "X" in the	he appropriate block. If no, please expla	in. YES NO	
9. Is the applicant (individual or company) a U.S. national or a U.S.	based company? If no, give name of co	ountry. YES NO	
10. Is the applicant the original owner? YES	NO If no, please answer one	of the following:	
a. If the original rights to variety were owned by individual(s), is YES  b. If the original rights to variety were owned by a company(ies) YES	NO If no, give name of country	ed company?	
11. Additional explanation on ownership (Trace ownership from original The variety named in this application was developed by the Sem otherwise stated, all rights to the varieties developed by Seminis	inis Vegetable Seeds, Inc., employee (br Vegetable Seeds, Inc. are assigned to the	reeder) named below. Unless	
operation of law. No rights to such invention, discovery or devel	lopment are retained by the employee(s)	·	
Employee (Deceden), W			
Employee (Breeder): Wayne Fowler			
Site Location: Naples, FL			
Site Location: Naples, FL		11.00	
Site Location: Naples, FL  PLEASE NOTE:	sees) who meet the following criteria:		
Site Location: Naples, FL  PLEASE NOTE:	erson must be a U.S. national national o	f a UPOV member country, or	
Site Location: Naples, FL  PLEASE NOTE:  Plant variety protection can only be afforded to the owners (not license).  If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of	erson must be a U.S. national, national of the U.S. for the same genus and specie	S.	
PLEASE NOTE:  Plant variety protection can only be afforded to the owners (not licenses). If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of a country which affords similar protection to nationals of a UPOV member country, or owned by nationals of a country which employs nationals of a UPOV member country, or owned by nationals of a country or owned by nationals of a country.	erson must be a U.S. national, national of the U.S. for the same genus and specie yed the original breeder(s), the company country which affords similar protection to	must be U.S. based, owned by anationals of the U.S. for the same	

including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

**EXHIBIT F** DECLARATION REGARDING DEPOSIT

	DECLARATION REGARDING DEPOSIT	
NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Seminis Vegetable Seeds, Inc.	2700 Camino del Sol	
	Oxnard, CA 93030	VARIETY NAME
		FDR 14-2056
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY
Carol L. Miller	2700 Camino del Sol 37437 State Highway 16	DVDO NUMBER
	Oxnard, CA 93030 Woodland, CA 95695	#200500320
	VVV-41W1W1 CFT 10010	"

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

20-Jul-07 Date